

MediaEdge

LAN-based Video Distribution System

Works Over
a Dedicated
Ethernet Network

Supports Scheduled
Video-on-demand
and Live Stream
Playback

High-quality
MPEG-2 Video

Flexible Design
Featuring Set-top-box
and Software Clients



canopus



Canopus MediaEdge is a cost effective video distribution system providing video-on-demand and scheduled programming of DVD quality video and audio over a Local Area Network (LAN). Using a Windows 2000 PC as a server, high quality video becomes available over a network to multiple client PC's and set-top-boxes (STB's). MediaEdge can be configured for video-on-demand applications or programmed schedules delivering either live or stored video content. MediaEdge sets the standard for low-cost mass distribution of video communications, providing the following features

MediaEdge Features

- > Professional level MPEG-1/2 video over a local network (100Base-TX or higher)
- > Multiple scheduled and live video stream capabilities
- > Supports NTSC & PAL streams. Hardware STB features composite, S-video and RCA stereo outputs
- > Flexible - compatible with PC or set-top-box (STB) clients

Flexible, Modular Design

Developed to operate from within a PC-based server, MediaEdge LAN-based video networking solutions can consist of:

MediaEdge-SVS (Server Software)

This advanced application is the core of MediaEdge and allows users to design and administer a sophisticated network broadcast system through its video-on-demand (VOD), scheduled and live stream playback capabilities.

- > Cost-effective network architecture using 100Base-TX
- > High-quality MPEG-1/2 video and sound via LAN
- > Encoding capabilities - providing up to 4 live streams with Canopus Amber (optional)
- > Customizable web-based user interface for both Server and Clients
- > Local and remote management capabilities

MediaEdge-STB (Set-top-box)

A compact network appliance, MediaEdge-STB operates as a VOD console or scheduled playback unit for television monitors and can be controlled by the infrared remote control (similar to a TV remote control).

- > Easy-to-use network appliance
- > Compact and lightweight
- > No moving parts
- > Supports S-video and composite output with high-quality audio out
- > Change channels and schedule with remote control
- > RS-232 support for enhance programming e.g. Touch Screen control

MediaEdge-SWT (PC-Based Client Software)

Once installed, the PC can access and play back video content stored on a MediaEdge server via the PC's web browser.

Technical Specifications

MediaEdge-SVS

System Requirements for MediaEdge-SVS

- > Windows 2000 Server (SP1 or later)
- > Pentium III 800 MHz or faster or Athlon 800 or faster
- > 128 MB (256 MB or more recommended)
- > 4 GB or more hard disk (OS and applications)
- > 4 GB or more hard disk (Database)
- > 18 GB or more hard disk (Dependent on amount of video content)
- > 100Base-TX Ethernet
- > CD-ROM drive
- > XGA display (1024x768 pixels), 65536 colors or higher
- > Available USB port for USB key module

Database Requirements for MediaEdge

- > MSDE database software (included with MediaEdge server software)
- > SQL Server 7.0 (not included)
- > SQL Server 2000 (not included)

Other MediaEdge-SVS Specifications

Transfer Protocol

- > RTP, RTSP

Supported Video Formats

- > MPEG-2 program stream
- > MPEG-1 system stream

Output Bandwidth

- > 1 network card - 60 Mbps
- > 2 network cards - 120 Mbps (2 network cards maximum)

Maximum supported clients

Scheduled broadcast (multicast)

- > Unlimited

Video-On-Demand (unicast)

- > Depends on output bandwidth

Live distribution

- > Depends on number of installed Amber cards and output bandwidth

MediaEdge-STB

Video decoder

- > MPEG-2, 2-15 Mbps
- > MP@ML, MP@LL, SP@ML
- > Full-D1, Half-D1
- > MPEG-1, 1-1.18 Mbps
- > SIF

Audio decoder

- > MPEG-1 layer I, II

Video output

- > S-Video (miniDIN), composite (RCA)

Audio output

- > Unbalanced stereo (2x RCA)

Connections

- > 100 Base-TX full duplex Ethernet (RJ-45)
- > Serial RS-232 (DB-9) Power requirements
- > DC 5.0V 1.0A (Universal AC adapter 120-240V 50-60Hz included)
- > 5W (Consumption)

MediaEdge-STB Accessories

- > AC adapter
- > infrared remote control
- > 2 AA batteries

MediaEdge-SWT

System Requirements

- > Windows 2000 / Windows XP Home / Windows XP Professional
- > CDROM Drive

With overlay support

- > Intel® Pentium III 800MHz or higher CPU
- > 128MB RAM (256MB or more recommended)
- > PCI soundcard
- > 100Base-TX Ethernet controller
- > AGP Graphics board with YUV overlay

Without overlay support

- > Intel® Pentium 4 2GHz or higher CPU
- > 256MB RAM or more
- > PCI soundcard
- > 100Base-TX Ethernet controller
- > AGP Graphics board

